Title (en)

COMMUNICATING CIRCUIT BREAKER ARCHITECTURE WITH AUTOMATIC LOAD CENTER POSITION IDENTIFICATION

Title (de)

KOMMUNIKATIONSTRENNSCHALTERARCHITEKTUR MIT AUTOMATISCHER LASTZENTRUMSPOSITIONSIDENTIFIKATION

Title (fr)

ARCHITECTURE DE COUPE-CIRCUIT DE COMMUNICATION AVEC POSITION IDENTIFICATION AUTOMATIQUE DE POSITON DE CENTRE D'ALIMENTATION

Publication

EP 3157039 B1 20180627 (EN)

Application

EP 16190152 A 20160922

Priority

US 201514881857 A 20151013

Abstract (en)

[origin: EP3157039A1] A communicating circuit breaker architecture with automatic load center position identification links circuit breakers having electronics for reporting a self-status signal including operating data and a position identifier. Each breaker has light pipes with optical ports at its sides for communicating with its neighbors and preferably a mechanically operated optical shunt providing an optical path through the breaker in the event of a trip. Each breaker has optical data transceivers for the light pipes which transmit self-status information through the light pipes and receive and repeat neighboring breaker status signals to its neighbors. The breakers form a network via their aligned optical ports reporting to an aggregator device in a known position of the Load Center which transmits breaker status reports outside the load center. Each breaker has a logic unit for determining its position in the load center based on the received position of a neighboring device.

IPC 8 full level

H01H 73/12 (2006.01); **H01H 9/16** (2006.01); **H02J 13/00** (2006.01)

CPC (source: CN EP US)

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